

## Lanxess Durethan® BKV 40H2.0 EF 900116 Nylon 6, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

### Material Notes:

PA 6, 40% glass fibers, injection molding, improved flowability, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-40H20-EF-900116-Nylon-6-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-40H20-EF-900116-Nylon-6-Glass-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0060 cm/cm	0.0060 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	2.8 %	2.8 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	12.6 GPa	1830 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	290 MPa	42100 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.20 %	@Strain 3.20 %	
Flexural Modulus	12.1 GPa	1750 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	79.0 kJ/m <sup>2</sup>	37.6 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1A
Izod Impact, Unnotched (ISO)	86.0 kJ/m <sup>2</sup>	40.9 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1U

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1, -3

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
	280 °C	536 °F	for test specimens; ISO 294
Mold Temperature	80.0 °C	176 °F	for test specimens; ISO 294

Processing Properties	Metric 80.0 - 120 Å°C	English 176 - 248 Å°F	Comments
Drying Temperature	80.0 Å°C	176 Å°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6, GHR, 10-120, GF40	

## Contact Songhan Plastic Technology Co.,Ltd.

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